

Attorney Docket No. P08958-US1

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims

1-24. (Canceled)

25. (New) A mobile station, comprising:

a router connected via a wireless communication link to at least one host connected to a mobile local area network (LAN), wherein the router receives packet data from the at least one host, said packet data including a locally defined network layer address suitable for transmission within the mobile LAN;

means for wirelessly communicating with an external network;

a memory connected to the router for storing one or more globally defined network layer addresses of the kind utilized in communicating data to at least one host connected in the external network; and

an address translator connected to the memory and the router for translating between the locally defined network layer address utilized in the mobile LAN and the one or more globally defined network layer addresses utilized in the external network.

26. (New) The mobile station of claim 25, wherein the address translator receives data packets originated in the external network and intended for the at least one host in the mobile LAN, and changes a destination address field of the packets from the globally defined network layer address to the locally defined network layer address.

27. (New) The mobile station of claim 25, wherein a plurality of globally defined network layer addresses are stored in the memory, and prior to a wireless communication with the external network, the address translator translates from the locally defined network layer address utilized in the mobile LAN to a first globally defined network layer address stored in the memory so long as successive

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communications between the at least one host in the mobile LAN and the at least one host in the external network occur within a predetermined period of time from each other.

28. (New) The mobile station of claim 27, wherein the address translator translates from the locally defined network layer address utilized in the mobile LAN to a second globally defined network layer address stored in the memory upon an affirmative determination that the successive communications between the at least one host in the mobile LAN and the at least one host in the external network occurred a period of time apart from each other that is greater than the predetermined period of time.

29. (New) The mobile station of claim 25, wherein the router receives translated packet data from the address translator and directs the translated packet data towards a wireless interface between the mobile LAN and the external network, and then to at least one host in the external network.

30. (New) A method of communicating packet data between at least one host connected to a mobile local area network (LAN) and at least one host in a wireless external network, wherein a locally defined network layer address is utilized in the mobile LAN, and globally defined network layer addresses are utilized in the external network, said method comprising:

implementing a router in a mobile station that wirelessly communicates with the external network;

connecting the router via a wireless communication link to the at least one host in the mobile LAN, wherein the router receives packet data from the at least one host in the mobile LAN, said packet data including the locally defined network layer address utilized in the mobile LAN;

storing in a memory in the mobile station, one or more of the globally defined network layer addresses utilized in the external network;

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translating in an address translator in the mobile station, from the locally defined network layer address utilized in the mobile LAN to the one or more globally defined network layer addresses utilized in the external network; and

routing via a wireless link from the mobile station to the external network, the packet data received from the at least one host in the mobile LAN to the at least one host in the external network utilizing the translated globally defined network layer address.

31. (New) The method of claim 30, further comprising:

receiving by the mobile station, packet data from the external network, said packet data including a globally defined network layer destination address identifying the at least one host in the mobile LAN;

translating in the mobile station, the globally defined network layer destination address in the packet data into a locally defined network layer destination address that identifies the identified host in the mobile LAN; and

routing the packet data from the mobile station to the identified host utilizing the translated locally defined network layer destination address.

32. (New) The method of claim 30, wherein the step of storing one or more of the globally defined network layer addresses in a memory in the mobile station includes storing a plurality of globally defined network layer addresses in the memory, and the method further comprises:

determining whether successive communications between the at least one host in the mobile LAN and the at least one host in the external network occur within a predetermined period of time from each other; and

translating from the locally defined network layer address utilized in the mobile LAN to a first globally defined network layer address stored in the memory, upon determining that successive communications between the at least one host in the mobile LAN and the at least one host in the external network occur within the predetermined period of time from each other, and prior to a wireless communication with the external network.

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33. (New) The method of claim 32, further comprising:
translating from the locally defined network layer address utilized in the mobile
LAN to a second globally defined network layer address stored in the memory, upon
determining that the successive communications between the at least one host in the
mobile LAN and the external network occurred a period of time apart from each other
that is greater than the predetermined period of time.